Model # COS14UL

14 Inch Cut Off Saw

INSTRUCTION MANUAL

Thank you for purchasing this Model COS14UL 14 Inch Cut Off Saw. This manual provides important information on properly operating and maintaining this Model COS14UL 14 Inch Cut Off Saw. Every effort has been made to ensure the accuracy of this manual. We reserve the right to change this product at any time without prior notice.

This manual contains important information regarding safety, operation, maintenance and storage of this product. Before use, read carefully and understand all warnings, cautions, instructions and labels. Failure to do so could result in serious personal injury, property damage or even death.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

STOP!

DO NOT RETURN THIS TOOL TO THE RETAILER.

Questions? Problems? CONTACT CUSTOMER SERVICE.
If you experience a problem or need to return this product for repair, call our customer help line at 1-888-287-6981, Monday-Friday, 8 AM - 4 PM Central Time. A copy of the sales receipt is required.

Model COS14UL 14 Inch Cut Off Saw

FEATURES:

- 15 AMP / 1800 Watt
- 1" Arbor
- Quick-Lock Vice
- Pivoting, Adjustable Fence
- Steel Base w/Rubber Feet
- Overload Protection
- 14" Cut Off Wheel Included

SPECIFICATIONS

• Rated Current	15 AMP / 1800 Watt
• Rated Voltage	120V / 60 Hz
• No Load Speed	3,800 RPM
• Maximum Cutting Depth	4 1/2 Inches

FOR CONSUMER USE ONLY – NOT FOR PROFESSIONAL USE

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RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

What You Need to Know About Safety Instructions

Warning and Important Safety Instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment.

Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.

NOTE

NOTE provides additional information that is useful for proper use and maintenance for this tool. If a NOTE is indicated make sure it is fully understood.

⚠ WARNING

Keep your work area clean and well lit. Cluttered work benches and dark work areas may cause accidents or injury.

Do not operate power tools in explosive areas, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children and visitors away while operating a power tool. Distractions can cause you to lose control.

⚠ WARNING

Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.

Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. **Keep the cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately**. Damaged cords increase the risk of electric shock.

When operating the tool outside, use an outdoor extension cord marked "WA" or "W." These cords are rated for outdoor use and reduce the risk of electric shock. Make sure the extension cord being used is in good condition. If there are any cuts or nicks (no matter how deep) in the insulation, DO NOT use that cord. Also, make sure the extension cord is heavy enough to carry the current needed. DO NOT use small "around-the-house" lamp extension cords. These cords can easily overheat and/or catch fire when used with power tools.

⚠ CAUTION

Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

Do not use the tool if the power switch does not turn it "ON" or "OFF". Any tool that cannot be controlled with the switch is dangerous and must be repaired.

Disconnect the power cord plug from the power source before making any adjustments, changing accessories or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

⚠ DANGER

People with pacemakers or other electronic devices should consult with a physician before operating this product. Interruption or failure of the pacemaker could occur when electrical equipment is operated within close proximity of electrical devices.

⚠ WARNING

Wash hands after handling the power cord. Touching the power cord could expose you to lead, which is known in the State of California to cause cancer, birth defects and other reproductive harm.

⚠ WARNING

All work areas should be clean and well lit. Accidents are more likely to occur in poorly lit and cluttered areas.

⚠ WARNING

Keep children, and other distractions at a distance while operating power tools.

⚠ WARNING

Keep the power cord in good condition, and replace damaged cords immediately. Do not use the cord to pull the plug from the outlet. Keep the cord away from materials and surfaces that could damage cords. The risk of electric shock increases when the power cord is damaged.

⚠ WARNING

Always use the appropriate extension cord, making sure it is rated for use with power tools. Always be sure the extension cords are in good condition, free of cuts or nicks in the insulation. If using the power tool in an outside area with an extension cord, make sure the cord is rated for outdoor use.

⚠ WARNING

Do not make contact with a grounded surface while using this power tool. Contact with surfaces like pipes, radiators or major appliances increases your risk of electric shock.

⚠ WARNING

Use common sense while operating this power tool.

Do not use this tool if you are:

- Feeling tired or are under the influence of alcohol or drugs.
- Wearing loose clothing or jewelry. Keep long hair pulled back and away from moving parts.
- Overreaching or have improper footing. Handling the tool in this way could cause serious injury.

When using this power tool always:

- Wear the proper safety equipment, such as safety goggles, dust masks, non-skid shoes, etc.
- Check to be sure all adjusting keys or wrenches have been removed before starting the power tool.
- Check to be sure the power switch is in the "OFF" position before plugging the power tool into an electrical outlet.

⚠ CAUTION

Follow these steps to maintain safe working conditions and good working condition of power tools. Improper care can result in electric shock or serious injury.

- Secure and support the work piece using clamps. **Do not use your hands to hold the piece in place.**
- **Use the correct tool for the job.** Using the correct tool is safer and faster.
- **Make sure the power switch is in good working order.** If the power switch no longer turns the tool "ON" or "OFF", discontinue use, and have the tool replaced or repaired.
- **Remove the power cord from the power source before storage, changing accessories, or moving the tool.**
- **Keep out of reach of children**, or any untrained person. Store tools in a safe and dry place.
- **Keep tools clean, and cutting tools sharp.** Maintaining tools with proper care will increase the life of the power tool, and reduce the risk of injury.
- **Check to be sure all moving parts are free from binding and are properly aligned.**
- Use only accessories that are recommended by the manufacturer for your tool model.
- **Hold the tool by the insulated grip when using in an area where contact with a "live" wire is a possibility.**

⚠ WARNING

Safety glasses and ear protection must be worn during operation.

SERVICE

Tool service must be performed only by qualified repair personnel. Service or maintenance by unqualified personnel could result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

This manual contains important information regarding safety, operation, maintenance and storage of this product. Before use, read carefully and understand all warnings, cautions, instructions and labels. Failure to do so could result in serious personal injury, property damage or even death.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

Before using this tool, you need to become familiar with its operation. If you are unsure about the operation of the tool, or have any questions about its proper use, call the Customer Service Department at 1-888-287-6981.
Follow these instructions for safe handling of the tool:

- **Always secure and support the work piece using clamps. Do not use your hands to hold the piece in place.**
- **Be sure your work area is clean and secure before turning the power switch into the "ON" position.** Be sure the area is free from all foreign material, nails, staples, or any other material.
- **Turn the saw "OFF" and unplug from the power source before making any changes or adjustments to the saw blade.**
- **Do not use solvents containing carbon tetrachloride, ammonia or acetone to clean the saw.** Never use gasoline, paint thinner, or other caustic chemicals that can damage the plastic parts of the tool.
- **Always use the appropriate safety gear when operating this saw.** Including but not limited, to goggles, dust mask or respirator. Always work in a well-ventilated area to reduce your exposure to harmful chemicals and dust particles.
- **Keep hands away from the cutting area.**
- **Do not reach under the work piece.**

SPECIFIC SAFETY RULES AND/OR SYMBOLS

SYMBOLS

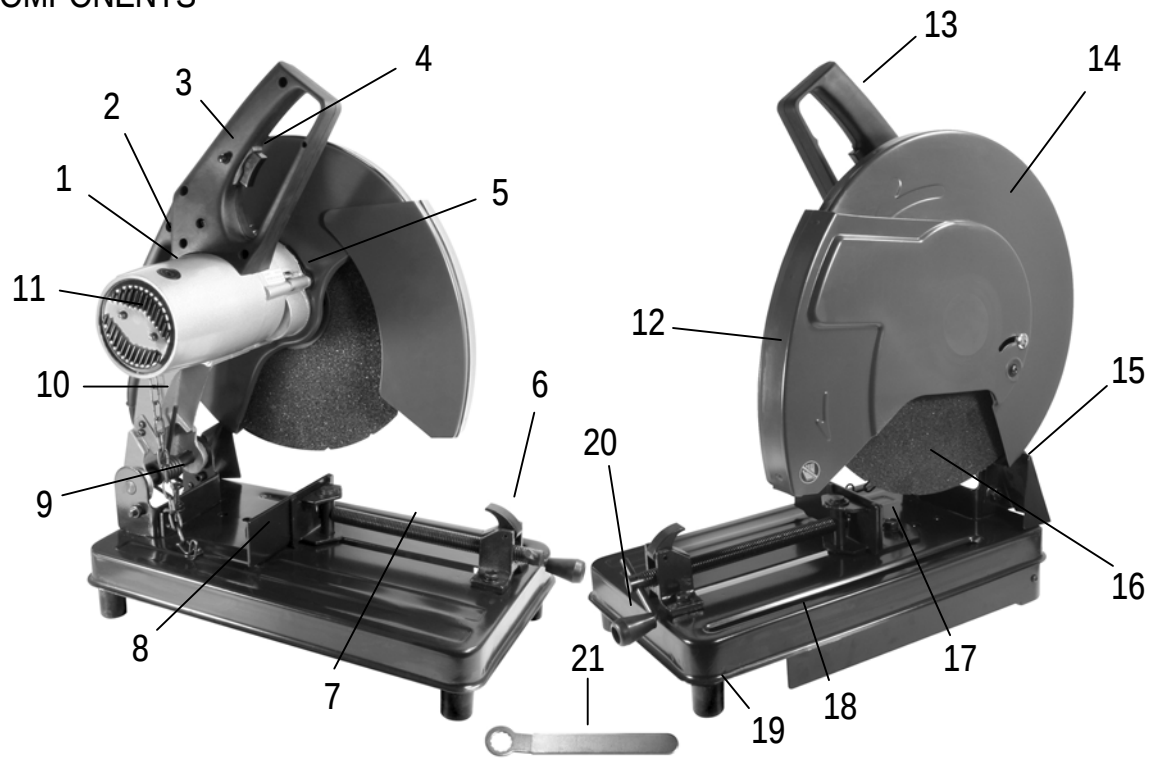
The following symbols may be used on your tool. Be familiar with and learn the symbols to operate the tool safely.

Symbol	Name	Description
V	Volts	Voltage (Potential)
A	Amperes	Current
Hz	Hertz	Frequency (Cycles per Second)
W	Watt	Power
Kg	Kilograms	Weight
~	Alternating Current	Type of Current
⎓	Direct Current	Type of Current
≂	Alternating or Direct Current	Type of Current
⏚	Earthing Terminal	Grounding Terminal
⧈	Class II Construction	Denotes Double Insulation
min	Minutes	Time
s	Seconds	Time
ϕ	Diameter	Size of Drill Bits, Grinding Wheels, etc.
n_0	No Load Speed	No-load Rotational Speed
.../min	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute
1,2,3...	Ring Selector Settings	Speed, Torque or Position Settings

PACKAGE CONTENTS

- Cut Off Saw
- Cut Off Wheel
- Spanner Wrench

COMPONENTS



1) Carbon Brush Housing
2) Carry Handle
3) Lock Button
4) Trigger Switch
5) Arbor Lock
6) Vice Lock Release Lever
7) Vice
8) Fence
9) Depth Stop
10) Hold Down Chain
11) Motor Housing
12) Front Spark Shield
13) Grip
14) Cut Off Wheel Guard
15) Rear Spark Shield
16) Cut Off Wheel
17) Fence Hex Bolts
18) Base
19) Rubber Footing
20) Vice Handle
21) Spanner Wrench

ASSEMBLY

INSTALLING OR REPLACING THE CUT OFF WHEEL

⚠ WARNING

Always use the proper cut off wheel for this saw. Cut off wheels that do not properly fit the spindle of the saw will cause loss of control.

⚠ WARNING

Before installing or replacing the cut off wheels, make sure the power cord is unplugged. Failure to do so could result in serious injury or electric shock.

⚠ CAUTION

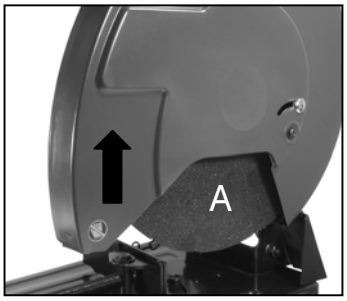
Before cutting, double-check the tightness of the spindle. Serious injury could occur if the cut off wheel is not securely in place.

NOTE

Unpack product from package and review contents. Keep all packaging until product has been reviewed.

Double check that the saw is off and unplugged from a power source before attempting to install or remove the cut off wheel.

Raise the front spark shield to fully expose the cut off wheel (A).

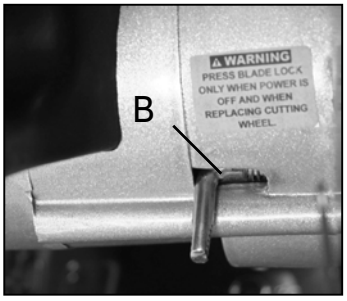


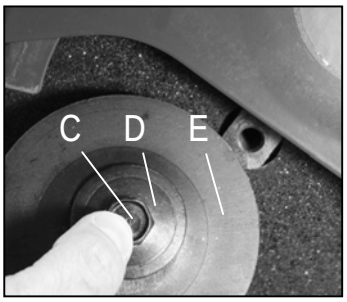
Push the spindle lock (B) to the right and rotate the cut off wheel until the spindle lock engages and the cut off wheel stops spinning.

Hold the spindle lock and turn the supplied spanner wrench in a counter-clockwise direction to remove the arbor screw (C), washer (D) and outer flange (E).

While the cut off wheel is removed, clear any debris from the inner flange. Then install the new cut off wheel, the arbor screw, washer and outer flange.

Check that the cut off wheel rotates easily and fully, and is securely held in place.



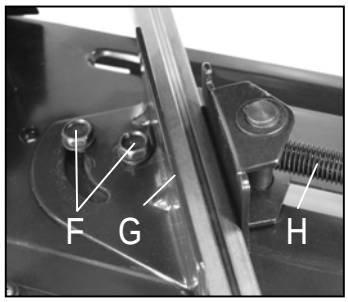


ADJUSTING THE SAW FOR USE

To ensure accurate and safe operation of the saw, the cutting angle must be determined and set before cutting.

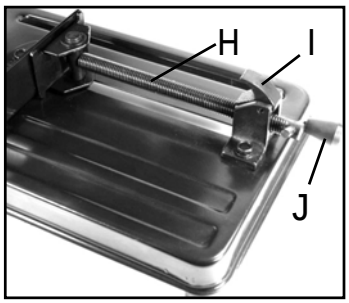
To adjust the Cutting Angle, loosen the two fence hex bolts (F) as shown and turn the fence (G) to the desired angle. The vice (H) pivots automatically to match the same angle as the fence.

To adjust the Fence Placement, remove the two fence hex bolts (F). Move the fence to the desired fixed position and replace the two hex bolts.

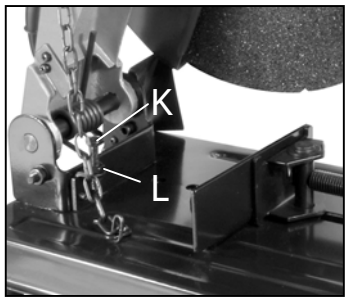


To adjust the vice (H), lift the vice lock release lever (I) and push the vice forward until the vice is touching the work piece, then lower the vice lock release lever so that its teeth engage those of the vice.

To secure the work piece in place, rotate the vice handle (J) clockwise. To remove an object from the vice, turn the vice handle in a counter-clockwise direction.



To adjust the downward travel of the cut off wheel, this saw is equipped with a stop screw (K). Adjustments are made by first loosening the lock nut (L), turning the stop screw to the desired position, then retightening the lock nut.



OPERATION

⚠ CAUTION

Wear safety eyewear and dust filters or respirators while using this tool.

⚠ WARNING

Be prepared for kickback when using the saw. Kickback may cause the saw to jump backwards, and cause serious injury to the user.

⚠ WARNING

Using the saw to cut imperfect, wet or warped material may cause kickback.

Plug the saw into power source, push the lock button and pull the trigger to start the cut off wheel rotating. To stop the cut off wheel, release the trigger. Releasing the trigger stops the motor and reengages the lock button to prevent injury. The momentum of the cut off wheel will keep it spinning without power from the motor. Allow the cut off wheel to come to a complete stop before making any adjustments.

Before beginning to cut, ensure the work piece is secure in the vice and that the fence and cutting angle have been adjusted to the desired positions. When the cut off wheel has reached full speed, bring the cut off wheel down onto the material to be cut. Allow the weight and pressure of the cut off wheel to do the work. DO NOT FORCE IT.

When the cut off wheel has cut completely through the work piece, raise the cut off wheel by the handle and release the trigger. The momentum of the cut off wheel will keep it spinning without power from the motor. Allow the cut off wheel to come to a complete stop before making any adjustments to the saw. KEEP YOUR HANDS WAY FROM THE ROTATING CUT OFF WHEEL.

CUTTING TIPS

⚠WARNING

Always secure the work piece using clamps. Never use your hands to hold the work piece in place. An unsecured work piece could cause serious injury.

⚠WARNING

Keep hands away from the cut off wheel to avoid injury.

⚠WARNING

Do not allow the saw to touch the work piece until the cut off wheel has reached its full speed. Applying the cut off wheel to the work piece before it has reached full speed might result in lose of control and injury.

To make a bevel adjustment, make sure the tool is unplugged. Loosen the two hex bolts holding the fence in place. Then align the bevel guide to the desired angle and retighten the hex bolts.

TIPS TO AVOID KICKBACK

⚠WARNING

Be prepared for kickback when using the saw. Kickback may cause the saw to jump backwards, and cause serious injury to the user.

⚠WARNING

Using the saw to cut imperfect, wet or warped material may cause kickback.

Kickback can occur when the cut off wheel becomes misaligned, pinched or bound, which causes the saw to lift up and out of the work piece, and move toward the operator. Using the tool correctly can reduce the risk of kickback. Observe the following procedures to reduce the risk of kickback:

- When the cut off wheel becomes bound, or the cut begins to be interrupted, release the trigger & hold the saw in place until the cut off wheel stops moving.
- When restarting a cut in the work piece, center the cut off wheel in the cut, and make sure it is NOT touching the work piece.
- Do not begin the cut until the cut off wheel has reached its full speed.
- Always support large pieces of material with saw horses or clamps. Large pieces can sag under their own weight, and can cause the cut off wheel to bind while making the cut.
- Always use new cut off wheel. Old or damaged cut off wheels may cause excessive friction on the work piece, and increase the risk of kickback.
- Do not make cut off wheel adjustments during the cut. Check that the bevel and depth adjustments are set and secure before beginning.
- Cut depth should always be set for no more than 1/8" to 1/4" larger than the thickness of the material to be cut. Always expose as little of the cut off wheel as possible.

MAINTENANCE

⚠WARNING

Disconnect the power supply before cleaning. Wear safety eyewear before cleaning. Used compressed dry air to blow off dust and debris. Use a soft bristle brush if compressed air is not available.

CAUTION

Applying excessive force to the tool can overload the motor, decrease the life and increase the wear on the tool.

CAUTION

Some chemicals can damage the product. Do not use harsh chemicals such as gasoline, carbon tetrachloride, paint thinner, etc.

CAUTION

A qualified repair technician must perform any tool service or repair. Service or maintenance performed by unqualified personnel could result in injury. Use only identical replacement parts. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

⚠WARNING

Do not make contact with a grounded surface while using this power tool. Contact with surfaces like pipes, radiators or major appliances increase your risk of electric shock.

Keep construction debris out of vents and triggers by blowing with compressed air. If compressed air is unavailable, use a soft bristle shop brush.

Use only mild soap and a slightly damp cloth to clean the tool.

This motor uses carbon brushes, which may require replacing. Carbon brushes wear out over time, and could create motor trouble. Keep carbon brushes free and clear of debris, and replace worn parts when necessary.

ACCESSORIES

Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

Always attach grounded (3-prong) extension cords to grounded (3-prong) outlets.

If you must use an extension cord, be sure that the gauge is large enough to carry the amount of current necessary for your power tool. If not, your tool may experience a loss of power, excessive voltage drop or overheating. For example, the smaller the gauge number, the heavier the cord.

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